



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/728,486A

Source:

IFwo

Date Processed by STIC:

6/4/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

~~TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE~~ **CHECKER**  
**VERSION 4.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebs/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/728,486A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
 (i)      SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading).  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
 This sequence is intentionally skipped  
  
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
 <210> sequence id number  
 <400> sequence id number  
 000
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>     Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

## RAW SEQUENCE LISTING

DATE: 06/04/2004

PATENT APPLICATION: US/10/728,486A

TIME: 08:54:49

Input Set : A:\IBIS0060-100.SEQrev.txt

Output Set: N:\CRF4\06042004\J728486A.raw

3 <110> APPLICANT: Ecker, David J.  
 4 Griffey, Richard H.  
 5 Sampath, Rangarajan  
 6 Hofstadler, Steven  
 7 McNeil, John  
 8 Crooke, Stanley T.  
 9 Blyn, Lawrence B.  
 10 Ranken, Raymond  
 11 Hall, Thomas A.  
 13 <120> TITLE OF INVENTION: METHODS FOR RAPID IDENTIFICATION OF PATHOGENS IN HUMANS AND  
 ANIMALS  
 15 <130> FILE REFERENCE: IBIS0060-100 (DIBIS-0044US)  
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/728,486A  
 C--> 17 <141> CURRENT FILING DATE: 2003-12-05  
 17 <150> PRIOR APPLICATION NUMBER: 60/431,319  
 18 <151> PRIOR FILING DATE: 2002-12-06  
 20 <150> PRIOR APPLICATION NUMBER: 10/323,233  
 21 <151> PRIOR FILING DATE: 2002-12-18  
 23 <150> PRIOR APPLICATION NUMBER: 10/326,051  
 24 <151> PRIOR FILING DATE: 2002-12-18  
 26 <150> PRIOR APPLICATION NUMBER: 10/325,527  
 27 <151> PRIOR FILING DATE: 2002-12-18  
 29 <150> PRIOR APPLICATION NUMBER: 10/325,526  
 30 <151> PRIOR FILING DATE: 2002-12-18  
 32 <150> PRIOR APPLICATION NUMBER: 60/443,443  
 33 <151> PRIOR FILING DATE: 2003-01-29  
 35 <150> PRIOR APPLICATION NUMBER: 60/443,788  
 36 <151> PRIOR FILING DATE: 2003-01-30  
 38 <150> PRIOR APPLICATION NUMBER: 60/447,529  
 39 <151> PRIOR FILING DATE: 2003-02-14  
 41 <150> PRIOR APPLICATION NUMBER: 60/501,926  
 42 <151> PRIOR FILING DATE: 2003-09-11  
 44 <160> NUMBER OF SEQ ID NOS: 377  
 46 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 48 <210> SEQ ID NO: 1  
 49 <211> LENGTH: 1388  
 50 <212> TYPE: RNA  
 51 <213> ORGANISM: 16S rRNA Consensus Sequence  
 53 <220> FEATURE:  
 55 <221> NAME/KEY: misc\_feature  
 56 <222> LOCATION: 1-15, 22-24, 36-38, 41, 42, 44, 56, 59-90, 93, 97, 98, 109,  
 57 110, 112-116, 118-120, 123-134, 134, 136, 138-144, 149-155, 161,  
 58 162, 164-177, 182-209, 212-220, 222-225, 227, 230, 231, 235, 236,  
 59 241, 245, 246, 253, 255-257, 260, 261-263, 267, 269, 270, 278, 279.

Does Not Comply  
Corrected Diskette Needed

see  
pp 2-3, too

invalid response for <2137  
(see item 10 on Enu  
summary  
sheet)

## RAW SEQUENCE LISTING

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TIME: 08:54:49

Input Set : A:\IBIS0060-100.SEQrev.txt

Output Set: N:\CRF4\06042004\J728486A.raw

60 281, 282, 284, 291, 294, 301, 306, 310, 329, 330, 335, 336-338,  
 61 344, 345, 347, 350, 351, 355, 356, 357, 361, 363, 364, 371, 372,  
 62 373, 376, 379, 382-386, 388, 389, 394-396, 398-405, 408, 411-438,  
 63 442, 443, 445-451, 453, 454, 458-460, 465, 469, 491, 495, 496, 499,  
 64 504-506, 511, 512, 514, 524, 526-528, 530, 534, 537-544, 546-550,  
 65 552, 556-562, 565, 569-578, 580-586, 589-595, 597, 601-606, 609,  
 66 612-617, 621-624, 629, 633, 636, 639, 643, 645, 646, 648, 650, 654,  
 67 658-660, 669-674, 678-683, 689, 691, 693-696, 704, 708, 713, 734,  
 68 721, 738, 744, 746-754, 756-758, 760-782, 784-786, 791-793,  
 69 796-800, 815, 816, 823-825, 834, 845, 848, 857, 859, 864, 869, 875,  
 70 877, 878, 884, 886, 894-898, 903-917, 921, 922-948, 955, 961, 972,  
 71 978, 978, 990, 1005-1013, 1015, 1017, 1019, 1021-1029, 1031, 1033,  
 72 1037-1043, 1049-1051, 1053, 1054, 1057-1059, 1069, 1075, 1083, 1085,  
 73 1089, 1094, 1096-1099, 1104, 1110, 1111, 1119-1123, 1127, 1128,  
 74 1130, 1132, 1133, 1136, 1138, 1139-1141, 1143, 1144, 1146-1150,  
 75 1154, 1157, 1159-1162, 1166-1170, 1172, 1173, 1176, 1181, 1183-1186,  
 76 1195-1198, 1200, 1205, 1206, 1210, 1220-1222, 1227, 1229, 1231-1233,  
 77 1244, 1249, 1266-1268, 1271, 1273, 1274, 1277-1285, 1288, 1289,  
 78 1293-1304, 1306-1311, 1313-1322, 1324, 1326, 1329, 1330-1338, 1341,  
 79 1345-1347, 1361, 1364, 1366-1368, 1372, 1373, 1375, 1378, 1388

→ "a" is at 713  
 "n" is at 712  
 "a" at 921  
 "n" at 920

82 &lt;223&gt; OTHER INFORMATION: n = A,U,C or G

84 &lt;400&gt; SEQUENCE: 1

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 86 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn agnggcnnac ggggagaann cnnnnnnnnnn 120  
 87 ccnnnnnnnnn nggnanannn nnnngaaann nnnnnnaaac nnannnnnnnn nnnnnnnnaaa 180  
 88 gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnng annnnnnnnn gnnnnanagn ngggngggaa 240  
 89 nggcnnacca agncnnngan nnnagcngnn cgagaggngg nncngccaca nggnacgaga 300  
 90 nacggncan acccacggga ggcagcagnn ggaannnnca aggnngnaan ncgannnagc 360  
 91 nannccgcgg nnnngangang gnnnnngnng aaannncnnn nnnnnnganga nnnnnnnnnnn 420  
 92 nnnnnnnnnnn nnnnnnnnga cnnannnnnn nannaagnnn cggcnaacnc ggccagcagc 480  
 93 cgcggaaacg naggnngcna gcgnnnccga nnangggcga aagnngnnngn aggnngnnnn 540  
 94 nnnngnnnnnn gnaaannnnn nngcnaacnn nnnnnnnncn nnnnnnacnn nnnnnncgag 600  
 95 nnnnnnagng gnnnnnnnga nnnnggagng ggnaancgna ganannngan gaanaccnnn 660  
 96 gcgaaggcnn nnnnccggnnn nnnacgacnc nannnncgaa agcngggngg gnaacaggaa 720  
 97 gaaccggag ccangcnaaa acngnnnnnn nnnngnnngn nnnnnnnnnnn nnnnnnnnnnn 780  
 98 nnannnaacg nnaannnnnn ccgccgggga gacgnncgca agnnnaaacc aaangaagac 840  
 99 ggggncncgc acaagcngng gagnagggna acgangnnac gcgnanaacc accnnnnnga 900  
 100 cannnnnnnn nnnnnnnngan annnnnnnnn nnnnnnnnnn nnnnnnnnac agggngcagg 960  
 101 ngcgcagccg gnnngagngg ggaagcccgn aacgagcgca accnnnnnnn nnnngcncanc 1020  
 102 nnnnnnnnnng ngnaccnnnn nnnacgccnn ngnaannngg gaggaaggng gggangacgc 1080  
 103 aancncagnc ccangnnnnng ggcncacacn ncacaaggnn nnnacanngn gnnngcannnn 1140  
 104 ngnnannnnn agcnaancnn nnaaannnnn cnnagncgga ngnnnnccgca accgnnnnnn 1200  
 105 gaagngggan cgcagaacgn nnacagnang nnnccgggaa cgcncgggnc gacacaccgc 1260  
 106 ccgcannnca ngnnagnnnn nnnnnccnna agnnnnnnnn nnnncnnnnn ngnnnnnnnn 1320  
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 108 acaccccn 1388  
 110 <210> SEQ ID NO: 2  
 111 <211> LENGTH: 2654  
 112 <212> TYPE: RNA

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Input Set : A:\IBIS0060-100.SEQrev.txt

Output Set: N:\CRF4\06042004\J728486A.raw

113 <213> ORGANISM: Artificial Sequence *this needs explanation*  
 115 <220> FEATURE: *in 2207-2223 section*  
 117 <221> NAME/KEY: misc\_feature  
 118 <222> LOCATION: 1-4, 8-12, 16, 18-22, 31, 35-40, 43, 47, 54, 56-62, 64, 65, 67-69,  
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 120 119, 125-142, 144-171, 173-175, 178-182, 186, 194, 198-202, 208, 214,  
 121 215, 218-221, 224, 226-229, 233, 244-246, 248, 250, 251, 254, 256-280,  
 122 282-284, 288-292, 295, 299-307, 309-311, 314, 316, 318, 319, 322, 325-328,  
 123 332-354, 358-360, 362-365, 367, 370, 372, 373, 375-378, 380, 381,  
 124 385-387, 389-392, 398-403, 407, 414-420, 425, 429, 431, 433, 434, 439,  
 125 443, 451, 458, 463, 464, 465, 466, 467, 469, 479, 482, 483, 492-496, 498,  
 126 500, 503-505, 507-509, 512-525, 528, 529, 533, 537, 539, 540, 543-545,  
 127 547, 549, 552-561, 564, 567, 570-578, 580, 583, 586, 589, 594, 599-601,  
 128 604, 605, 607, 611-613, 616-620, 622-625, 630, 635, 637-639, 643, 646-648,  
 129 651, 652, 657, 662-666, 670, 672-676, 682, 689-696, 703-708, 714, 715,  
 130 718-720, 722, 725, 730, 731, 733, 736, 738, 742-744, 746, 747, 756, 757,  
 131 763-766, 770-773, 776-791, 794, 805-814, 817-829, 832, 833, 835-842, 847,  
 132 852, 855-870, 872, 875, 876, 878, 879, 881-883, 885, 887, 889, 892-894,  
 133 896-898, 900, 901, 903, 908, 913, 920, 922, 923, 925-927, 932, 936,  
 134 939-946, 952, 956, 959, 962-967, 969, 970, 972, 976-978, 983, 999, 1001,  
 135 1002, 1008, 1009, 1015, 1022, 1023, 1025, 1028-1034, 1039, 1042, 1043,  
 136 1045, 1047, 1052, 1056-1063, 1069-1074, 1076-1097, 1102, 1103, 1109-1121,  
 137 1126-1132, 1134, 1135, 1137-1143, 1147-1155, 1159, 1161, 1164, 1165, 1167,  
 138 1168, 1170, 1174, 1178-1185, 1189, 1191, 1192, 1194-1198, 1200, 1204,  
 139 1206-1208, 1210, 1215, 1218-1223, 1225, 1227-1229, 1231-1236, 1240,  
 140 1245-1247, 1253, 1254, 1258, 1260, 1263, 1265, 1267, 1268, 1271, 1272,  
 141 1277, 1278, 1280-1282, 1285, 1286, 1291-1293, 1296-1316, 1321-1326,  
 142 1328-1345, 1348-1455, 1457, 1458, 1464-1490, 1496, 1497, 1511, 1513-1516,  
 143 1518, 1519, 1523, 1525, 1526, 1528, 1529, 1533, 1535-1537, 1539-1542,  
 144 1545-1552, 1560, 1561, 1567-1571, 1576, 1581, 1583, 1588-1591, 1593-1633,  
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 147 1707, 1714, 1718, 1719, 1727, 1728, 1730-1738, 1740-1744, 1746-1756,  
 148 1758-1760, 1767, 1768, 1770, 1779, 1780, 1789, 1790, 1820, 1828, 1831,  
 149 1833, 1836, 1839-1846, 1851-1859, 1861, 1863, 1865, 1869-1871, 1873-1877,  
 150 1879, 1886-1890, 1892, 1896-1900, 1915, 1916, 1918, 1920, 1924, 1925,  
 151 1927-1932, 1934, 1936-1950, 1952, 1953, 1956, 1961, 1966, 1968, 1969,  
 152 1970, 1973-1980, 1983, 1984, 1987-1993, 1998, 2000-2004, 2006, 2007, 2011,  
 153 2014, 2016-2029, 2034-2044, 2046, 2048-2056, 2061, 2063-2065, 2067, 2068,  
 154 2072, 2075, 2085, 2086, 2091, 2095, 2096, 2106, 2108, 2109, 2111,  
 155 2116-2118, 2120, 2122-2125, 2128, 2129, 2132, 2133, 2136-2143, 2146, 2147,  
 156 2150, 2151, 2153, 2155, 2159, 2160, 2161, 2164, 2165, 2169, 2170  
 157 2173-2176, 2179-2182, 2190-2192, 2199, 2200, 2203-2205, 2214, 2217-2222,  
 158 2228, 2232, 2248, 2251, 2253, 2266, 2268-2271, 2280, 2283, 2291-2294, 2311,  
 159 2313, 2324, 2327, 2328, 2339, 2340, 2349, 2350, 2355, 2358, 2362, 2370,  
 160 2372, 2386, 2394, 2396, 2397, 2399, 2401, 2403, 2405-2407, 2410-2412,  
 161 2415-2417, 2419-2421, 2423, 2424, 2426, 2442-2444, 2446, 2449, 2450, 2452,  
 162 2454, 2459-2461, 2463, 2466-2468, 2473-2475, 2479, 2480, 2483, 2485, 2486,  
 163 2491-2494, 2497-2500, 2505, 2506, 2512, 2520-2522, 2526, 2528-2530,

Please ensure that "N" locations  
are listed correctly.

## RAW SEQUENCE LISTING

DATE: 06/04/2004

PATENT APPLICATION: US/10/728,486A

TIME: 08:54:49

Input Set : A:\IBIS0060-100.SEQrev.txt

Output Set: N:\CRF4\06042004\J728486A.raw

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 165 2576-2579, 2583, 2584, 2586-2589, 2591, 2597-2599, 2601-2603, 2605,  
 166 2609-2612, 2614, 2615, 2617, 2618-2622, 2625-2627, 2630-2632, 2637-2640,  
 167 2642-2647, 2649-2654

170 &lt;223&gt; OTHER INFORMATION: n = A,U,C or G

172 &lt;400&gt; SEQUENCE: 2

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 174 nncnncnnna nncnnngggn agnngnnnnn nncnncnnna nccnnngnnc cgaaggggna 120  
 175 accnncnnnn nnnnnnnnnn nnannnnnnn nnnnnnnnnn nnnnnnnnnn ngnnnacnnn 180  
 176 nngaangaaa cacnagannn nnaggaanag aaannaannn ngancnnng agnggcgagc 240  
 177 gaannngnan nagnncnnnn nnnnnnnnnn nnnnnnnnnn annngaannn nnggnaaggn 300  
 178 nnnnnnnann nggnanannc cngannnaaa annnnnnnnn nnnnnnnnnn nnnnagannn 360  
 179 cnnnncncgn gnnannngn ngaannngn ngaccannn nnaaagncaa aacnnnnnnn 420  
 180 gaccnaagng nannagacng ganggaaagg ngaaaagnac ccnnnnnang ggaggaaana 480  
 181 gnccgaaac cnnnnncnan aannngnna gnnnnnnnnn nnnnnngann cgnccgann 540  
 182 agnnncngng annnnnnnnn ngcnagnaann nnnnnnnngn agncgnagng aaancgaggn 600  
 183 naannngcgc nnnagnnnnn gnnnagacn cgaancnnng gancannag nncaggngaa 660  
 184 gnnnnngaann annnnnggag gnccgaaann nnnnnnggaa aannnnnnngg agannnggnn 720  
 185 gnggngaaan ncnaancnaa cnnngnnaag cggccnncga aannnnaggn nngcnnnnn 780  
 186 nnnnnnnnnn ngcnggagag cacgnnnnnn nnnnggnnnn nnnnnnnna cnnannnnn 840  
 187 nnaaacncga accnnnnnn nnnnnnnnnn gnagnnannc nngngngna anncnnngn 900  
 188 nanagggnaa cancccagan cncnnnaag gncccaann nnnnnnaagg gnaaangang 960  
 189 gnnnnnncnn anacannnag gangggcaga agcagccanc nnaaagann cgaanagcca 1020  
 190 cncnagnnn nnnngcgcng annanancgg gncaannnnn nnnccgaann nnnngnnnnn 1080  
 191 nnnnnnnnnn nnnnnngga gngagcgnn nnnnnnnnnn ngaagnnnnn nngnnannnn 1140  
 192 nnnngannnn nnnnnaggng nagnngnnan agancgannn nnnnnnggana nncnnnnncn 1200  
 193 ccgnannncn aaggncnnn nnnangnnnc nnnnnngggn agcgnnncca agngagncn 1260  
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 198 ccgacacagg ngnnngngng agnanncnaa gngnnngnn nnaannnnnn nnaaggaacn 1560  
 199 ngcaaannnn nccganccgg nanaaggnn ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1620  
 200 nnnnnnnnnn nnnngnnnnn nmanngnnn nnnncnacga nnaaaaacac agnnncngcn 1680  
 201 aanncgnaag nngangaang gngacnccg ccnggcnng aaggaanngn nnnnnnnngn 1740  
 202 nnnngnnnnn nnnnnnnnn aagccnngn aacggcggn gaacaaacnn ccaaggagcg 1800  
 203 aaaccgcggg aagccgaccn gcacgaang ngnaangann nnnnnncgcc nnnnnnnnc 1860  
 204 ncngngaann nannnnngna agagcnnnn cncgcnnnn gacggaaaga cccnngnan 1920  
 205 cacnnannnn nnangnnnnn nnnnnnnnn gnnagnaagg nggagncnn gannnnnnnn 1980  
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 209 ngcnnacgnn agnnnnacnn nncgagcagn nncgaaagn ggnnnaggac cggngggnnn 2220  
 210 nnggaagngc cncgccaacg gaaaaagnac ncnggggaaa caggcnann ncccaagagn 2280  
 211 canacgacgg nnnngggcac ccgagcgcc ncncaccgg gcgnagngg cccaagggn 2340  
 212 ggcgcgcenn aaagnggnac gngagcggn anaacgcgga gacagnggc cacngngng 2400  
 213 ngngnnngan nngannngnn ngncnagac gagaggacc gnnngnacnn anncggggn 2460  
 214 ncnggnngc canngcann gcngnnagca nnnnggnnn gaaanngcga angcacaagn 2520  
 215 nngaancnnn cnnnnagann agnnncnncn nnnnnnnnn nnnnnnnnag nnnnnnnna 2580

## RAW SEQUENCE LISTING

DATE: 06/04/2004

PATENT APPLICATION: US/10/728,486A

TIME: 08:54:49

Input Set : A:\IBIS0060-100.SEQrev.txt

Output Set: N:\CRF4\06042004\J728486A.raw

```

216 gannannnnng ngaaggnnng nnnngnaagnn nngnnannnnn nnagnnnnacb nnacaannnn 2640
217 cnnnnnnncnn nnnn 2654
219 <210> SEQ ID NO: 3
220 <211> LENGTH: 13
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Primer
227 <400> SEQUENCE: 3
228 cgtggtgacc ctt 13
230 <210> SEQ ID NO: 4
231 <211> LENGTH: 14
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Primer
238 <400> SEQUENCE: 4
239 cgtcgtcacc gcta 14
241 <210> SEQ ID NO: 5
242 <211> LENGTH: 13
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Primer
249 <400> SEQUENCE: 5
250 cgtggtaccc ctt 13
252 <210> SEQ ID NO: 6
253 <211> LENGTH: 90
254 <212> TYPE: RNA
255 <213> ORGANISM: Bacillus anthracis
257 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: 20
261 <223> OTHER INFORMATION: n = A, U, C or G
263 <400> SEQUENCE: 6
264 gcgaagaacc uuaccagguc uugacauccu cugacaaccc uagagauagg gcuucuccuu 60
265 cgaggagcaga gugacaggug gugcaugguu 90
267 <210> SEQ ID NO: 7
268 <211> LENGTH: 90
269 <212> TYPE: RNA
270 <213> ORGANISM: Bacillus cereus
272 <400> SEQUENCE: 7
273 gcgaagaacc uuaccagguc uugacauccu cugaaaaccc uagagauagg gcuucuccuu 60
274 cgaggagcaga gugacaggug gugcaugguu 90
276 <210> SEQ ID NO: 8
277 <211> LENGTH: 30
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/10/728,486A

DATE: 06/04/2004  
 TIME: 08:54:50

Input Set : A:\IBIS0060-100.SEQrev.txt

Output Set: N:\CRF4\06042004\J728486A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. ~~1,2,3,4,5,6,7,15,22,23,24,36,37,38,41,42,44,56,59,60,61,62~~  
 Seq#:1; N Pos. ~~63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82~~  
 Seq#:1; N Pos. ~~83,84,85,86,87,88,89,90,98,97,98,109,110,112,113,114,115,116~~  
 Seq#:1; N Pos. ~~118,119,120,123,124,125,126,127,128,129,130,131,134,136,138~~  
 Seq#:1; N Pos. ~~139,140,141,142,143,144,149,150,151,152,153,154,155,161,162~~  
 Seq#:1; N Pos. ~~164,165,166,167,168,169,170,171,172,173,174,175,176,177,182~~  
 Seq#:1; N Pos. ~~183,184,185,186,187,188,189,190,191,192,193,194,195,196,197~~  
 Seq#:1; N Pos. ~~198,199,200,201,202,203,204,205,206,207,208,209,212,213,214~~  
 Seq#:1; N Pos. ~~215,216,217,218,219,220,222,223,224,225,227,230,231,235,236~~  
 Seq#:1; N Pos. ~~241,245,246,253,255,256,257,260,261,262,263,267,268,270,278~~  
 Seq#:1; N Pos. ~~279,281,282,284,291,294,301,306,310,329,330,335,336,337,338~~  
 Seq#:1; N Pos. ~~344,345,347,350,351,355,356,357,361,363,364,371,372,373,376~~  
 Seq#:1; N Pos. ~~379,382,383,384,385,386,388,389,394,395,396,398,399,400,401~~  
 Seq#:1; N Pos. ~~402,403,404,405,408,411,412,413,414,415,416,417,418,419,420~~  
 Seq#:1; N Pos. ~~421,422,423,424,425,426,427,428,429,430,431,432,433,434,435~~  
 Seq#:1; N Pos. ~~436,437,438,442,443,445,446,447,448,449,450,451,453,454,458~~  
 Seq#:1; N Pos. ~~459,460,465,469,481,485,486,499,504,505,506,511,512,514,524~~  
 Seq#:1; N Pos. ~~526,527,528,530,534,537,538,539,540,541,542,543,544,546,547~~  
 Seq#:1; N Pos. ~~548,549,550,552,556,557,558,559,560,561,562,565,569,570,571~~  
 Seq#:1; N Pos. ~~572,573,574,575,576,577,578,580,581,582,583,584,585,586,589~~  
 Seq#:1; N Pos. ~~590,591,592,593,594,595,597,601,602,603,604,605,606,609,612~~  
 Seq#:1; N Pos. ~~613,614,615,616,617,621,622,623,624,629,633,636,639,643,645~~  
 Seq#:1; N Pos. ~~646,648,650,654,658,659,660,669,670,671,672,673,674,678,679~~  
 Seq#:1; N Pos. ~~680,681,682,683,689,691,693,694,695,696,704,708,712,734,737~~  
 Seq#:1; N Pos. ~~738,744,746,747,748,749,750,751,752,753,754,756,757,758,760~~  
 Seq#:1; N Pos. ~~761,762,763,764,765,766,767,768,769,770,771,772,773,774,775~~  
 Seq#:1; N Pos. ~~776,777,778,779,780,781,782,784,785,786,791,792,793,796,797~~  
 Seq#:1; N Pos. ~~798,799,800,815,816,823,824,825,834,845,848,857,859,864,869~~  
 Seq#:1; N Pos. ~~875,877,878,884,886,894,895,896,897,898,903,904,905,906,907~~  
 Seq#:1; N Pos. ~~908,909,910,911,912,913,914,915,916,917,920,922,923,924,925~~  
 Seq#:1; N Pos. ~~926,927,928,929,930,931,932,933,934,935,936,937,938,939,940~~  
 Seq#:1; N Pos. ~~941,942,943,944,945,946,947,948,955,961,972,973,978,980,1005~~  
 Seq#:1; N Pos. ~~1006,1007,1008,1009,1010,1011,1012,1013,1015,1017,1019,1021~~  
 Seq#:1; N Pos. ~~1022,1023,1024,1025,1026,1027,1028,1029,1031,1033,1037,1038~~  
 Seq#:1; N Pos. ~~1039,1040,1041,1042,1043,1049,1050,1051,1053,1054,1057,1058~~  
 Seq#:1; N Pos. ~~1059,1069,1075,1083,1085,1089,1094,1096,1097,1098,1099,1104~~  
 Seq#:1; N Pos. ~~1110,1111,1119,1120,1121,1122,1123,1127,1128,1130,1132,1133~~  
 Seq#:1; N Pos. ~~1136,1138,1139,1140,1141,1143,1144,1146,1147,1148,1149,1150~~  
 Seq#:1; N Pos. ~~1154,1157,1159,1160,1161,1162,1166,1167,1168,1169,1170,1172~~  
 Seq#:1; N Pos. ~~1173,1176,1181,1183,1184,1185,1186,1195,1196,1197,1198,1200~~  
 Seq#:1; N Pos. ~~1205,1206,1210,1220,1221,1222,1227,1229,1231,1232,1233,1244~~  
 Seq#:1; N Pos. ~~1249,1256,1267,1268,1271,1273,1274,1277,1278,1279,1280,1281~~  
 Seq#:1; N Pos. ~~1282,1283,1284,1285,1288,1289,1293,1294,1295,1296,1297,1298~~  
 Seq#:1; N Pos. ~~1299,1300,1301,1302,1303,1304,1306,1307,1308,1309,1310,1311~~



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/728,486A

DATE: 06/04/2004  
TIME: 08:54:50

Input Set : A:\IBIS0060-100.SEQrev.txt  
Output Set: N:\CRF4\06042004\J728486A.raw

Seq#:1; N Pos. ~~1313,1314,1315,1316,1317,1318,1319,1320,1321,1322,1324,1326~~  
Seq#:1; N Pos. ~~1329,1330,1331,1332,1333,1334,1335,1336,1337,1338,1341,1345~~  
Seq#:1; N Pos. ~~1346,1347,1361,1364,1366,1367,1368,1372,1373,1375,1378,1388~~  
Seq#:2; N Pos. ~~1,2,3,4,8,9,10,11,12,16,18,19,20,21,22,31,35,36,37,38,39,40~~  
Seq#:2; N Pos. ~~43,47,54,56,57,58,59,60,61,62,64,65,67,68,69,71,72,74,75,76~~  
Seq#:2; N Pos. ~~79,80,83,84,86,87,88,89,90,91,92,93,95,96,97,98,99,101,104~~  
Seq#:2; N Pos. ~~105,106,108,109,119,125,126,127,128,129,130,131,132,133,134~~



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